



Inc. 1910

Public Works

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## MEMORANUM

TO: Jared Gunderson, Dylan McCracken  
FROM: Jay T. Mazalewski  
DATE: 5/3/2017

### RE: Teton Regional Wastewater Treatment Plant (TRWWTP) - Operations Update and Changes

The TRWWTP is not functioning as designed. This memo outlines the issues and proposed methods to solve the issues.

**ISSUE:** The TRWWTP is creating excess sludge and fouling the equipment causing significant maintenance issues. We are meeting all of our mandated testing levels except ammonia which has been an ongoing problem.

### **SOLUTION:**

Step 1: Contact Aquarius for training and inspection of the MSABP and other WWTP (Jay)

Step 2: Reset the MSABP to the original recommended settings per the Operation & Maintenance Manual.

Diffuser Setting to Normal: 2 scfm = approximate valve setting 3 (pg 9)

30 Minute Bump Diffuser Air every Wednesday: 4 scfm = approximate valve setting 6

Check & record DO daily with permanent probes and portable probe.

DO range: *Stage 1=0.2 > Stage 10=5*

Perform Daily inspection of MSABP per manual (pg 10-11)

Step 3: Reset Plate Settler to original recommended settings. If no settings are specified, set to 30 minutes. Dylan to contact manufacturer and get recommended settings.

Step 4: Reseed plant with MicroClear 201 and augment with MircoClear M-100. Recommended seeding rates:

Days 1-4: 1 lb. of 201 and 1 lb. of M-100 each day, in three doses per day.

Estimates Cost: \$513 for 25 lbs. of each.

Step 5: Test and monitor plant:

Plate Settler: Record sludge judge daily (Tue-Thu)

Sample and test for Ammonia, PH, xxx, xxx, xxx (Wed)

Headworks

After MSABP

After UV3000

Lagoon Outfall

Step 6: Contact Westech for training and inspection of drum screens/grit removal system(Dylan).